L Number	Hits		DB	Time stamp
2	3	window\$3 with (data and segment) and seismic and sweep\$3 and (chirp or variphase or vibrator\$3)	USPAT; US-PGPUB	2003/04/18 16:19
1	8	window\$3 with (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3)	USPAT; US-PGPUB	2003/04/18 16:18
3	27	window\$3 and (data and segment) and seismic and sweep\$3 and (chirp or variphase or vibrator\$3)	USPAT; US-PGPUB	2003/04/18 16:21
4	27	window\$3 and (data and segment) and seismic and sweep\$3 and (chirp or variphase or vibrator\$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:22
5	83	window\$3 and (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:23
6	0	(window\$3 and (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3) and first and second) and variphase and gather\$3	USPAT; US-PGPUB	2003/04/18 16:34
7	0	(variphase with gather\$3) and seismic and sweep\$3 and window\$3 and stack\$3	USPAT; US-PGPUB	2003/04/18 16:35
8	0	variphase with gather\$3	USPAT; US-PGPUB	2003/04/18 16:35
9	0	variphase and gather\$3	USPAT; US-PGPUB	2003/04/18 16:36
10	0	(cascade\$3 with sweep\$3) and data and gather\$3	USPAT; US-PGPUB	2003/04/18 16:37
12	11	(cascade\$3 with sweep\$3) and data and segment	USPAT; US-PGPUB	2003/04/18 16:37
14	2	(cascade\$3 with sweep\$3) and data and segment and seismic and window\$3	USPAT; US-PGPUB	2003/04/18 16:38
.13	4	(cascade\$3 with sweep\$3) and data and segment and seismic	USPAT; US-PGPUB	2003/04/18 16:41
11	28	(cascade\$3 with sweep\$3) and data	USPAT; US-PGPUB	2003/04/18 16:47
15	5	(cascade\$3 with sweep\$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 16:49
17	16	(cascade\$3 and sweep\$3) and data and seismic and window\$3	USPAT; US-PGPUB	2003/04/18 16:50
18	16	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second	USPAT; US-PGPUB	2003/04/18 16:50
20	12	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3	USPAT; US-PGPUB	2003/04/18 16:56
21	2	(cascade\$3 with sweep\$3) and data and seismic and window\$3 and first and second and segment\$3	USPAT; US-PGPUB	2003/04/18 16:58
22	11	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3	USPAT; US-PGPUB	2003/04/18 16:59
23	11	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3 and segment\$3	USPAT; US-PGPUB	2003/04/18 17:04
24	1	(cascade\$3 with sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3 and segment\$3	USPAT; US-PGPUB	2003/04/18 17:07
16	40	(cascade\$3 and sweep\$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 17:08

L Number	Hits		DB	Time stamp
2	3	window\$3 with (data and segment) and seismic and sweep\$3 and (chirp or variphase or vibrator\$3)	USPAT; US-PGPUB	2003/04/18 16:19
1	8	window\$3 with (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3)	USPAT; US-PGPUB	2003/04/18 16:18
3	27	window\$3 and (data and segment) and seismic and sweep\$3 and (chirp or variphase or vibrator\$3)	USPAT;	2003/04/18 16:21
4	27	window\$3 and (data and segment) and seismic and sweep\$3 and (chirp or variphase or vibrator\$3) and first and second	US-PGPUB USPAT;	2003/04/18 16:22
5	83	window\$3 and (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3) and first and second	US-PGPUB USPAT;	2003/04/18 16:23
6	0	(window\$3 and (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3) and first and second) and variphase and gather\$3	US-PGPUB USPAT; US-PGPUB	2003/04/18 16:34
7	0	(variphase with gather\$3) and seismic and sweep\$3 and window\$3 and stack\$3	USPAT; US-PGPUB	2003/04/18 16:35
8	0	variphase with gather\$3	USPAT; US-PGPUB	2003/04/18 16:35
9	0	variphase and gather\$3	USPAT; US-PGPUB	2003/04/18 16:36
10	0	(cascade\$3 with sweep\$3) and data and gather\$3	USPAT; US-PGPUB	2003/04/18 16:37
12	11	(cascade\$3 with sweep\$3) and data and segment	USPAT; US-PGPUB	2003/04/18 16:37
14	2	(cascade\$3 with sweep\$3) and data and segment and seismic and window\$3	USPAT; US-PGPUB	2003/04/18 16:38
13	4	(cascade\$3 with sweep\$3) and data and segment and seismic	USPAT; US-PGPUB	2003/04/18 16:41
11	28	(cascade\$3 with sweep\$3) and data	USPAT; US-PGPUB	2003/04/18 16:47
15	5	(cascade\$3 with sweep\$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 16:49
17	16	(cascade\$3 and sweep\$3) and data and seismic and window\$3	USPAT; US-PGPUB	2003/04/18 16:50
18	16	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second	USPAT; US-PGPUB	2003/04/18 16:50
20	12	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3	USPAT; US-PGPUB	2003/04/18 16:56
21	2	(cascade\$3 with sweep\$3) and data and seismic and window\$3 and first and second and segment\$3	USPAT; US-PGPUB	2003/04/18 16:58
22	11	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3	USPAT; US-PGPUB	2003/04/18 16:59
23	11	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3 and segment\$3	USPAT; US-PGPUB	2003/04/18 17:04
24	1	(cascade\$3 with sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3 and segment\$3	USPAT; US-PGPUB	2003/04/18 17:07
16	40	(cascade\$3 and sweep\$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 17:08

L Number	Hits		DB	Time stamp
2	3	window\$3 with (data and segment) and seismic and sweep\$3 and (chirp or variphase or vibrator\$3)	USPAT; US-PGPUB	2003/04/18 16:19
1	8	window\$3 with (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3)	USPAT;	2003/04/18 16:18
3	27	window\$3 and (data and segment) and seismic and sweep\$3	US-PGPUB USPAT;	2003/04/18 16:21
4	27	and (chirp or variphase or vibrator\$3) window\$3 and (data and segment) and seismic and sweep\$3	US-PGPUB USPAT;	2003/04/18 16:22
5.	83	and (chirp or variphase or vibrator\$3) and first and second window\$3 and (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3) and first and second	US-PGPUB USPAT;	2003/04/18 16:23
6	0	(window\$3 and (data and segment) and seismic and (sweep\$3 or chirp or variphase or vibrator\$3) and first and second) and variphase and gather\$3	US-PGPUB USPAT; US-PGPUB	2003/04/18 16:34
7	0	(variphase with gather\$3) and seismic and sweep\$3 and window\$3 and stack\$3	USPAT; US-PGPUB	2003/04/18 16:35
8	0	variphase with gather\$3	USPAT; US-PGPUB	2003/04/18 16:35
9	0	variphase and gather\$3	USPAT; US-PGPUB	2003/04/18 16:36
10	0	(cascade\$3 with sweep\$3) and data and gather\$3	USPAT; US-PGPUB	2003/04/18 16:37
12	11	(cascade\$3 with sweep\$3) and data and segment	USPAT; US-PGPUB	2003/04/18 16:37
14	2	(cascade\$3 with sweep\$3) and data and segment and seismic and window\$3	USPAT; US-PGPUB	2003/04/18 16:38
13	4	(cascade\$3 with sweep\$3) and data and segment and seismic	USPAT; US-PGPUB	2003/04/18 16:41
11	28	(cascade\$3 with sweep\$3) and data	USPAT; US-PGPUB	2003/04/18 16:47
15	5	(cascade\$3 with sweep\$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 16:49
17	16	(cascade\$3 and sweep\$3) and data and seismic and window\$3	USPAT; US-PGPUB	2003/04/18 16:50
18	16	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second	USPAT; US-PGPUB	2003/04/18 16:50
20	12	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3	USPAT; US-PGPUB	2003/04/18 16:56
21	2	(cascade\$3 with sweep\$3) and data and seismic and window\$3 and first and second and segment\$3	USPAT; US-PGPUB	2003/04/18 16:58
22	11	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3	USPAT; US-PGPUB	2003/04/18 16:59
23	11	(cascade\$3 and sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3 and segment\$3	USPAT; US-PGPUB	2003/04/18 17:04
24	1	(cascade\$3 with sweep\$3) and data and seismic and window\$3 and first and second and segment\$3 and compar\$3 and segment\$3	USPAT; US-PGPUB	2003/04/18 17:07
16	40	(cascade\$3 and sweep\$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 17:08

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1			US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
2			US 5410517 A	19950425	17	Method for cascading sweeps for a seismic vibrator	367/75

	Current XRef	Retrieval Classif	Inventor	s	С	Р	2	3	4	5
1	367/41; 367/43		Fleure, Thomas John	×						
2	181/108; 181/113; 367/190; 367/38; 367/40; 367/41		Andersen, Kenneth D.	⊠						

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1	US 6418079	
2	US 5410517	

	1						
	U	1	Document ID	Issue Date	Pages	Title	Current OR
1			US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
2			US 4597066 A	19860624	29	Method of seismic processing and displaying simultaneously collected conventional and converted P- or S-wave data	367/38
3			US 4596005 A	19860617	27	Method of seismic collection utilizing multicomponent processing receivers and processing resultant conventional and converted Por S-wave data	367/38

	Current XRef	Retrieval Classif	Inventor	s	С	P	2	3	4	5
1	367/41; 367/43		Fleure, Thomas John	\boxtimes						
2	367/50; 367/74; 702/14		Frasier, Clint W.	×						
3	367/74; 702/14		Frasier, Clint W.	⊠						

	lmage Doc. Displayed	PT
1	US 6418079	
2	US 4597066	
3	US 4596005	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	Ø		US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
2	×		US 5410517 A	19950425		Method for cascading sweeps for a seismic vibrator	367/75

	Current XRef	Retrieval Classif	Inventor	s	С	Р	2	3	4	5
1	367/41; 367/43		Fleure, Thomas John							
2	181/108; 181/113; 367/190; 367/38; 367/40; 367/41		Andersen, Kenneth D.							

	lmage Doc. Displayed	РΤ
1	US 6418079	
2	US 5410517	

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1			US 20020091487 A1	20020711	23	Method of using cascaded sweeps for source coding and harmonic cancellation	702/2
2			US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
3			US 5410517 A	19950425	17	Method for cascading sweeps for a seismic vibrator	367/75
4			US 4095425 A	19780620	13	Control system for rotary air modulator	60/484

	Current XRef	Retrieval Classif	Inventor	s	С	Р	2	3	4	5
1			Moerig, Rainer et al.	Ø						
2	367/41; 367/43		Fleure, Thomas John	×						
3	181/108; 181/113; 367/190; 367/38; 367/40; 367/41		Andersen, Kenneth D.	⊠						
4	181/118; 181/119; 181/401; 367/190; 60/702; 60/911		Brown, Graydon L. et al.	⊠						

	Image Doc. Displayed	PT
1	US 20020091487	
2	US 6418079	
3	US 5410517	
4	US 4095425	